

Riding the Digital Explosion

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GILS Conference

Internet Evolution on Steroids

- ◇ 1990 Messaging (mail, netnews) but wanted searchable archives
- ◇ 1991 DB systems (WAIS) but wanted browsing
- ◇ 1992 Browsing & DB (Gopher) but wanted richer presentation
- ◇ 1993 Hypertext & DB (Web) but wanted programmable UI
- ◇ 1995 Mobile code (Java?) but...

Constant need:

Access to useful data viewable multiple systems

The Future of Information Technology

- ◇ Digital
- ◇ Personal
- ◇ Ubiquitous
- ◇ Multimedia: text -> video

Communications Revolution: Digital Data

◇ Today the Internet:

- Consumer: 14kb/sec
- Professional: 56kb-1mb/sec

◇ Tomorrow:

- Cable: 100mb/sec
- CamCorders: 100kb/sec
- Satellite Dishes: Xgb/sec

Computer Revolution

- ◇ Today: desktop workstations,
super mainframes
- ◇ Tomorrow: ubiquitous
communications

Data Revolution

- ◇ Today: newspapers, 100 channels of TV
- ◇ Tomorrow: merging TV, Telephone, and Databases
- ◇ Everyone is a publisher

Making sense of it all

- ◇ Internal coordination
- ◇ Using external sources: standards standards standards

Coming Problems

- ◇ Proprietary vs. open systems
- ◇ Infotainment -> Productivity tool
 - Cross server navigation: 52k is too many
 - Personalization through profiling
 - Packaged delivery using "agents"

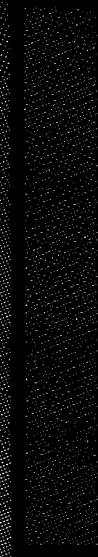
Proprietary Services of Past (and Future?)

IPs



Prodigy

IPs



CompuServe

IPs



AOL

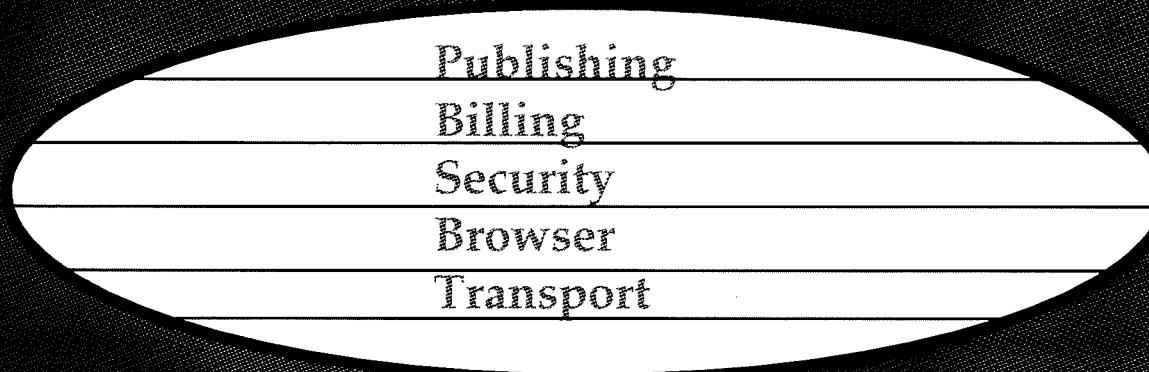
◇ Proprietary and Exclusive

Maturing Open Model

IPs

IPs

IPs



AOL users

MSN users

??? users

◇ Customer Services Adds Value

◇ IPs get maximum distribution

Sample Personal Paper

WAISagent

From WAIS Inc.

Tuesday, April 18, 1995



Online Publishing

Electronic Publishing
Media - Publishing
Interactive/Online Services
Internet



Wall Street Journal

Front Page
Market Place Front Page
Technology
Editorial Stories



Current Events

Congress
Supreme Court
Federal Trade Commission
Federal Communications



Personal Index



WAIS® Search

About WAIS

Online Publishing

Buyer-seller relationship strengthened through interactive media

Central Newspapers - Russell -2-: Will Remain Director >ECP

Central Newspapers Decl 14c Class A Regular Qtrly Div >ECP

DISNEY, AMERITECH, BELLSOUTH AND SBC LAUNCH HOME ENTERTAINMENT PARTNERSHIP

DISNEY, AMERITECH, BELLSOUTH AND SBC TO CONDUCT TELEPHONE PRESS CONFERENCE TODAY

Disney/Baby Bell Venture -2-: To Mkt Programming Nationwide

E-Mail Makes Inroads In Worker Communications

INTERACTIVE ANNOUNCES CD-ROM PUBLISHING AGREEMENT WITH JEAN-MICHEL COUSTEAIL

GILS' Solution

- ◇ Put the government info into the open systems
- ◇ Don't invest in User Interface: make government databases available to all
- ◇ Post it once: HTTP, Gopher, Z39.50, Fax etc. from one DB
- ◇ Enable Active Clients: Towards Agents

Interoperability with other Systems

- ◇ **Web, Java...**
- ◇ **Online Services: AOL, Microsoft Network, etc.**
- ◇ **Lotus notes**
- ◇ **Cable systems**
- ◇ **...**

Next Steps

- ◇ The Internet is winning against all competitors! but...
- ◇ Data is still inaccessible to most people
- ◇ Standards processes are still too slow

Lets create the future we want to live in.